

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) ~~Fluorocarbon~~ A fluorocarbon emulsion for medicinal purposes, which includes rapidly eliminated fluorocarbon compounds such as perfluorodecaline or perfluorooctylbromide, a fluorocarbon supplement and a phospholipid, the fluorocarbon comprising:

~~characterised in that~~

a composition of perfluorodecaline and perfluorooctylbromide ~~[[is]]~~ used as rapidly eliminated component, in which ~~the~~ a fluorocarbon supplement ~~represents~~ is a mixture of perfluorinated tertiary amines, and the phospholipid ~~[[is]]~~ used as a dispersion in a water-salt medium.

2. (Currently Amended) ~~Emulsion~~ The fluorocarbon emulsion according to claim 1, further comprising ~~characterised in that it contains~~ 2 – 40% by vol. fluorocarbon compounds.

3. (Currently Amended) ~~Emulsion~~ The fluorocarbon emulsion according to claim 1, wherein a ~~characterised in that the~~ composition of rapidly eliminated fluorocarbon compounds contains perfluorodecaline and perfluorooctylbromide in ~~the~~ a ratio between 10 : 1 and 1 : 10.

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4. (Currently Amended) ~~Emulsion~~ The fluorocarbon emulsion according to claim 1, wherein ~~characterised in that~~ the fluorocarbon supplement contains 1 to 50% of ~~the~~ a total content of ~~the~~ a composition of rapidly eliminated fluorocarbon compounds.

5. (Currently Amended) ~~Emulsion~~ The fluorocarbon emulsion according to claim 1, wherein ~~characterised in that~~ the mixture of perfluorinated tertiary amines contains a mixture of perfluorotripropylamine and coproducts thereof, ~~namely~~ including cis- und trans-isomers of perfluoro-1-propyl-3,4-dimethylpyrrolidone and perfluoro-1-propyl-4-methylpiperidine.

6. (Currently Amended) ~~Emulsion~~ The fluorocarbon emulsion according to claim 1 ~~and~~ 5, wherein ~~characterised in that~~ the mixture of perfluorinated tertiary amines contains in addition perfluoro-N-methylcyclohexylpiperidine and coproducts thereof.

7. (Currently Amended) ~~Emulsion~~ The fluorocarbon emulsion according to claim 1, further comprising ~~characterised in that it contains~~ a phospholipid dispersion in ~~the~~ a water-salt medium in a concentration of 0.2 to 5% by weight.

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8. (Currently Amended) ~~Emulsion~~ The fluorocarbon emulsion according to claim 1, wherein ~~characterised in that~~ the phospholipid dispersion in the water-salt medium contains one of egg phospholipids, [[or]] soya phospholipids, [[or]] and phospholipids or a mixture thereof ~~of these lipids~~.

9. (Currently Amended) ~~Emulsion~~ The fluorocarbon emulsion according to claim 1, wherein ~~characterised in that~~ the phospholipid dispersion in the water-salt medium contains as adjuvant vegetable oil in a quantity of 1 - 15% of the total content of the phospholipids.

10. (Currently Amended) ~~Emulsion~~ The fluorocarbon emulsion according to claim 9, wherein ~~characterised in that~~ soya oil serves as adjuvant.

11. (Currently Amended) ~~Emulsion~~ The fluorocarbon emulsion according to claim 9, wherein ~~characterised in that~~ sunflower seed oil serves as adjuvant.

12. (Currently Amended) ~~Emulsion~~ The fluorocarbon emulsion according to claim 9, wherein ~~characterised in that~~ ricinus oil serves as adjuvant.

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13. (Currently Amended) ~~Emulsion~~ The fluorocarbon emulsion according to claim 9, wherein ~~characterised in that~~ a mixture of the ~~mentioned~~ oils in the an effective ratio in the a form of one of a twofold ~~[[or]]~~ mixture and a threefold mixture serves as adjuvant.

14. (Currently Amended) ~~Emulsion~~ The fluorocarbon emulsion according to claim 1, wherein ~~characterised in that~~ the composition of the water-salt medium contains sodium salts and potassium salts of chlorides and phosphates and ~~also~~ the monosaccharide mannitol in injection water.

15. (Currently Amended) ~~Emulsion~~ The fluorocarbon emulsion according to claim 1, wherein a ~~characterised in that the~~ concentration of the components in the water-salt medium has an osmotic pressure in the range of 100 - 350 mosmol/l.

16. (Currently Amended) ~~Emulsion~~ The fluorocarbon emulsion according to ~~one of the claims 1 to~~ claim 15, wherein ~~characterised in that~~ the a mean particle size ~~does not exceed~~ is equal to or less than 0.2 μm and is in a range of 0.06 – 0.2 μm .

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17. (Currently Amended) ~~Method~~ A method for producing a fluorocarbon emulsion which includes a homogenization ~~homogenisation~~ under high pressure, the method comprising:

~~characterised in that~~

~~it is implemented in a plurality of steps, namely~~ a first step of producing a phospholipid dispersion in a water-salt medium, a second step of ~~homogenisation~~ homogenization of the fluorocarbon compounds in the phospholipid dispersion, a third step of heat ~~sterilisation~~ sterilization of the produced emulsion, and a fourth step of subsequent storage of at least 6 months in ~~the~~ a non-frozen state at a temperature of +4°C.

18. (Currently Amended) ~~Method~~ The method according to claim 17, wherein ~~characterised in that~~ the phospholipid dispersion in the water-salt medium is produced by ~~homogenisation~~ homogenization at a high pressure of at least 100 atm with subsequent heat ~~sterilisation~~ sterilization.

19. (Currently Amended) ~~Method~~ The method according to claim 17, wherein ~~characterised in that~~ the fluorocarbon compounds in the phospholipid dispersion are ~~homogenised~~ homogenized at a pressure of 300 atm to 650 atm.

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20. (Currently Amended) ~~Method~~ The method according to claim 17, wherein ~~characterised in that~~ the phospholipid dispersion is ~~sterilised~~ sterilized at 100°C.

21. (Currently Amended) ~~Method~~ The method according to claim 17, wherein ~~characterised in that~~ the fluorocarbon emulsion is ~~sterilised~~ sterilized at 100°C.

22. (New) The fluorocarbon emulsion according to claim 1, wherein the mixture of perfluorinated tertiary amines contains in addition perfluoro-N-methylcyclohexylpiperidine and coproducts thereof.

23. (New) The fluorocarbon emulsion according to claim 1, wherein a mean particle size is equal to or less than 0.2 μm and is in a range of 0.06 – 0.2 μm .